

VISCOSITY CUPS VISCOSITY CUPS ACCORDING/SIMILAR TO DIN 53211

PRODUCT DESCRIPTION

The process of flow through an orifice can often be used as a relative measurement and classification of viscosity. This measured kinematic viscosity is generally expressed in seconds of flow time which can be converted into Centistokes using a viscosity disc calculator. Viscosity Flow Cups are used for measuring the consistency of paints, varnishes and other similar products.



BUSINESS

Laboratory

STANDARDS

According/similar to DIN 53211



FEATURES

- A relatively deep well surrounding the top of the cup serves to catch any overflow.
- The design of the cup and orifice eliminate hard to clean recesses.
- The outside dimensions have been chosen to support the TQC stands.
- TQC viscosity cups are made under the continuing quality control procedures.
- Each cup is provided with an engraved unique serial number.

STANDARD DELIVERY

Each viscosity cup comes with a hard plastic storage case, with protective soft material on the inside.

OPTIONAL ITEMS

- VF2005** Test certificate, type M, according to DIN 55350 part 18, for DIN viscosity cup with nozzle 4mm.
- VF2062** Ring stand Type S 10
- VF1980** S20 special stand design 2005
- VF1982** Optional attemperation tank type DIN and ASTM for S20 special stand
- VF2061** Tripod stand Type S40B, stainless steel ring incl. Spirit level
- DI0076** Stopwatch Type C510 digital LCD-display, 9h. 59 min. 59,99 sec.
- VF2053** Viscosity Conversion Disc
- VF2067** Attemperation tank TM 1, for DIN- and ASTM-Cups

USE

- ▶ According to the standard all measurements should be made at 23°C. Temperature drift during the test should be kept to a minimum and should not exceed $\pm 0,2$ °C. Adjust the temperature of the material to be measured if necessary.
- ▶ Select the proper orifice to be used from the specification table, which depends on the expected viscosity range of the material to be measured.
- ▶ Once the viscosity cup is truly horizontal (this is best achieved using a cup stand and bubble level), cover the exit orifice and fill the cup making sure that the meniscus of the liquid is above the rim of the cup.
- ▶ Using the glass draw plate, remove the meniscus into the overflow ring and close the cup.
- ▶ The distance between the orifice of the flow cup and the surface of the receiving sample has to be more than 100mm. Open the exit orifice and remove the glass draw plate. Time between the removal of the glass draw plate and the first break in the liquid's flow is measured.

TECHNICAL DATA

Viscosity Cup Type DE 10

Cup: titanium anodized aluminium,
100 cc
Nozzle: stainless steel, fixed
Acc. to: DIN 53211 (No. 4)
Other orifices sim. to DIN 53211
Weight: 212-214 gram*
Max. Width: 91 mm
Height: 74 mm
*(depending on orifice)

Article Number	Product Descr.	Ø Orifice (mm)	Viscosity Range (cSt)	Flow times (sec)
VF2000	2	2		
VF2001	3	3		
VF1999	4	4	96-683	25-150
VF2002	5	5		
VF2003	6	6		
VF2004	8	8		

* For information purposes only; all approximate values at 25 °C.

Viscosity Cup Type DR 10

Cup: stainless steel, 100 cc
Nozzle: stainless steel, fixed
Acc. to: DIN 53211 (No. 4)
Other orifices sim. to DIN 53211
Weight: 603-606 gram*
Max. Width: 91 mm
Height: 74 mm
*(depending on orifice)

Article Number	Product Descr.	Ø Orifice (mm)	Viscosity Range (cSt)	Flow times (sec)
VF2013	2	2		
VF2014	3	3		
VF2015	4	4	96-683	25-150
VF2016	5	5		
VF2017	6	6		
VF2019	8	8		

* For information purposes only; all approximate values at 25 °C.

SPECIAL CARE

A viscosity cup is a precision instrument. With reasonable care, it is constructed to give many years of satisfactory service. To clean the instrument, use a soft cloth, NEVER clean by any mechanical means, such as sandpaper, steel brush or any other abrasive tool.

Particular care should be used in cleaning the orifice to avoid leaving deposits or scratches on internal surfaces. It's recommended to clean the cup promptly after each use, unless it will be used immediately for a rerun of the same material.

SAFETY PRECAUTIONS

Determining viscosity may involve hazardous materials, operations and equipment. It is the responsibility of the executor to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to the measurement.

DISCLAIMER

The right of technical modifications is reserved.

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